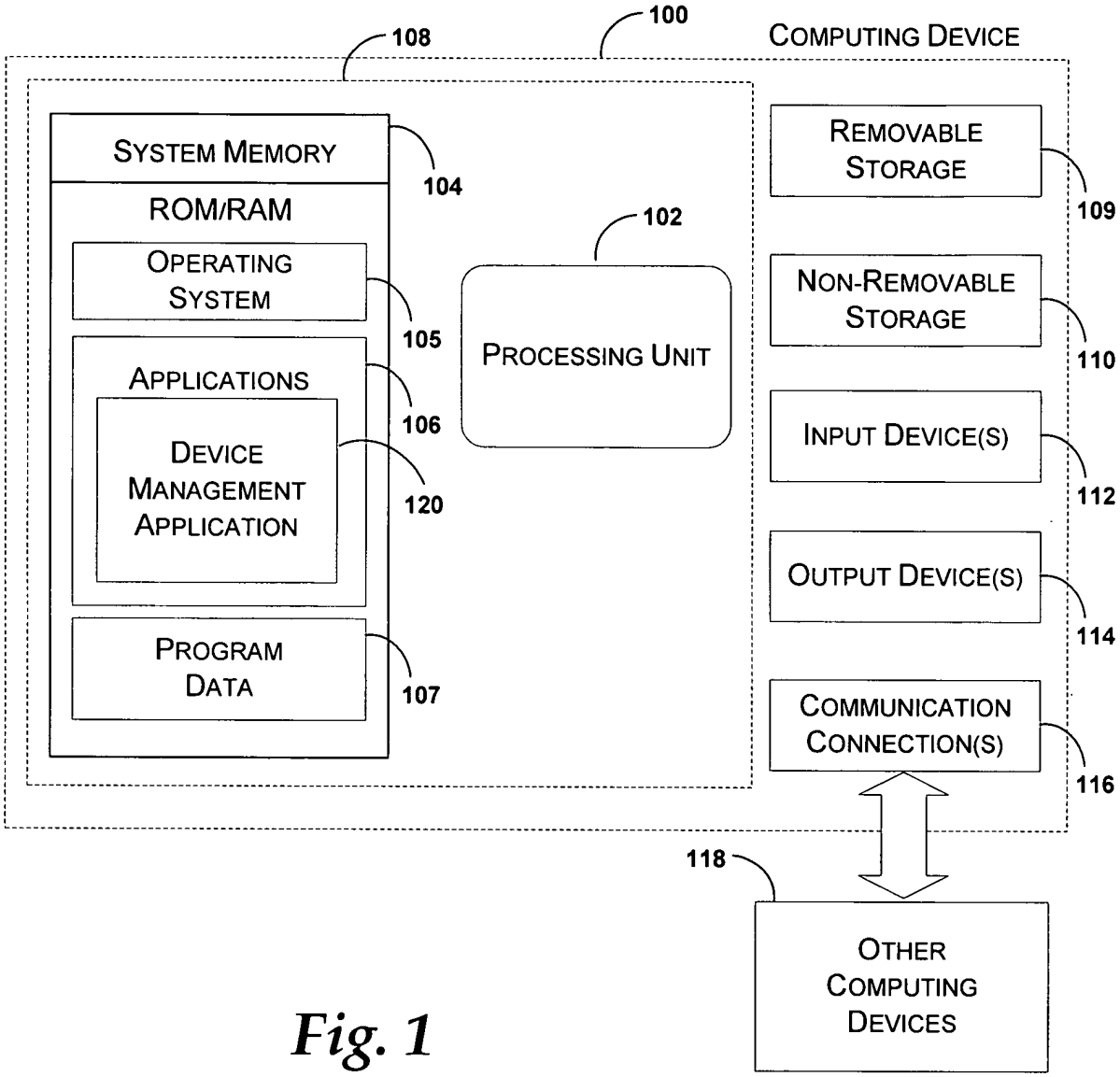
100
COMPUTING DEVICE
108
SYSTEM MEMORY
104
ROM/RAM
OPERATING SYSTEM
105
APPLICATIONS
106
DEVICE MANAGEMENT APPLICATION
120
PROGRAM DATA
107
102
PROCESSING UNIT
REMOVABLE STORAGE
109
NON-REMOVABLE STORAGE
110
INPUT DEVICE(S)
112
OUTPUT DEVICE(S)
114
COMMUNICATION CONNECTION(S)
116
118
OTHER COMPUTING DEVICES

Fig. 1

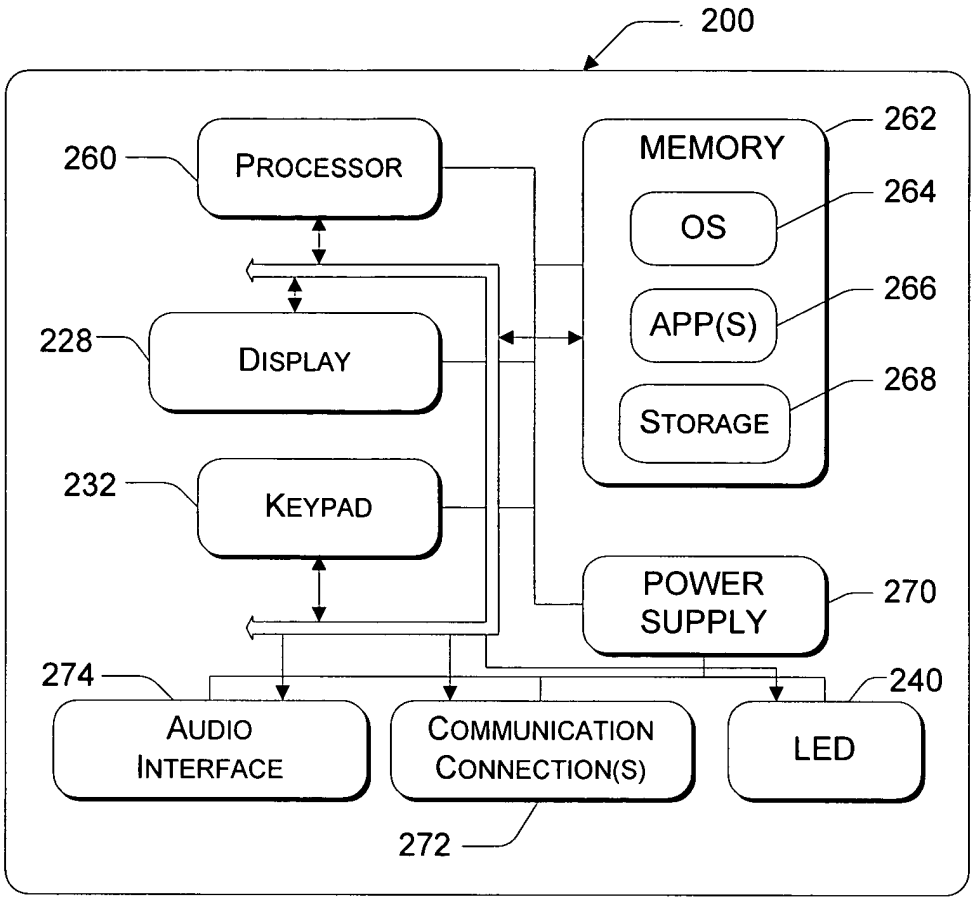
200
260
PROCESSOR
MEMORY
262
264
OS
266
APP(S)
228
DISPLAY
268
STORAGE
232
KEYPAD
POWER SUPPLY
270
274
240
AUDIO INTERFACE
COMMUNICATION CONNECTION(S)
LED
272

Fig.2

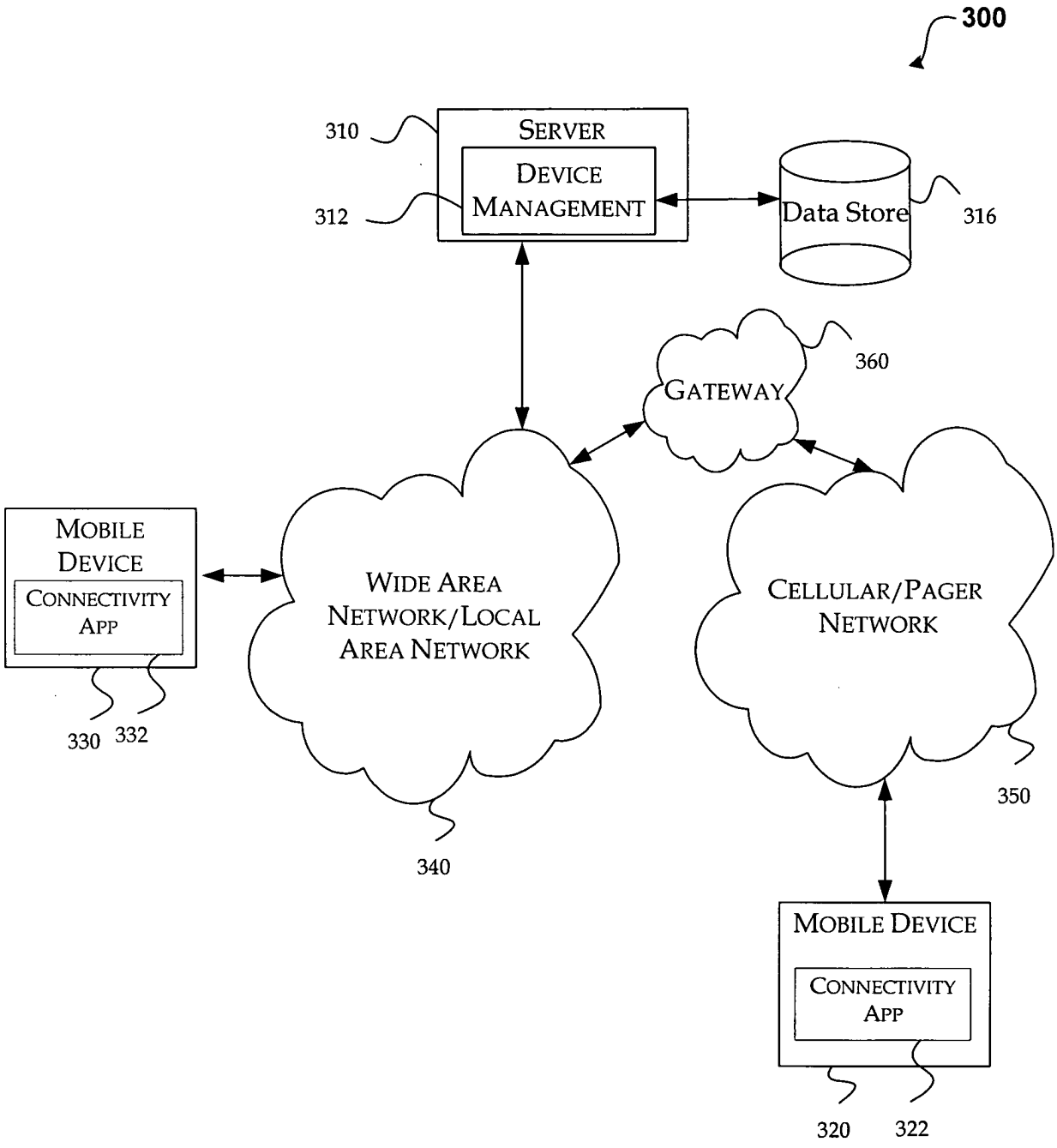
300
310
SERVER
DEVICE MANAGEMENT
312
Data Store
316
360
GATEWAY
MOBILE DEVICE
CONNECTIVITY APP
330
332
WIDE AREA NETWORK/LOCAL AREA NETWORK
340
CELLULAR/PAGER NETWORK
350
MOBILE DEVICE
CONNECTIVITY APP
320
322

Fig. 3

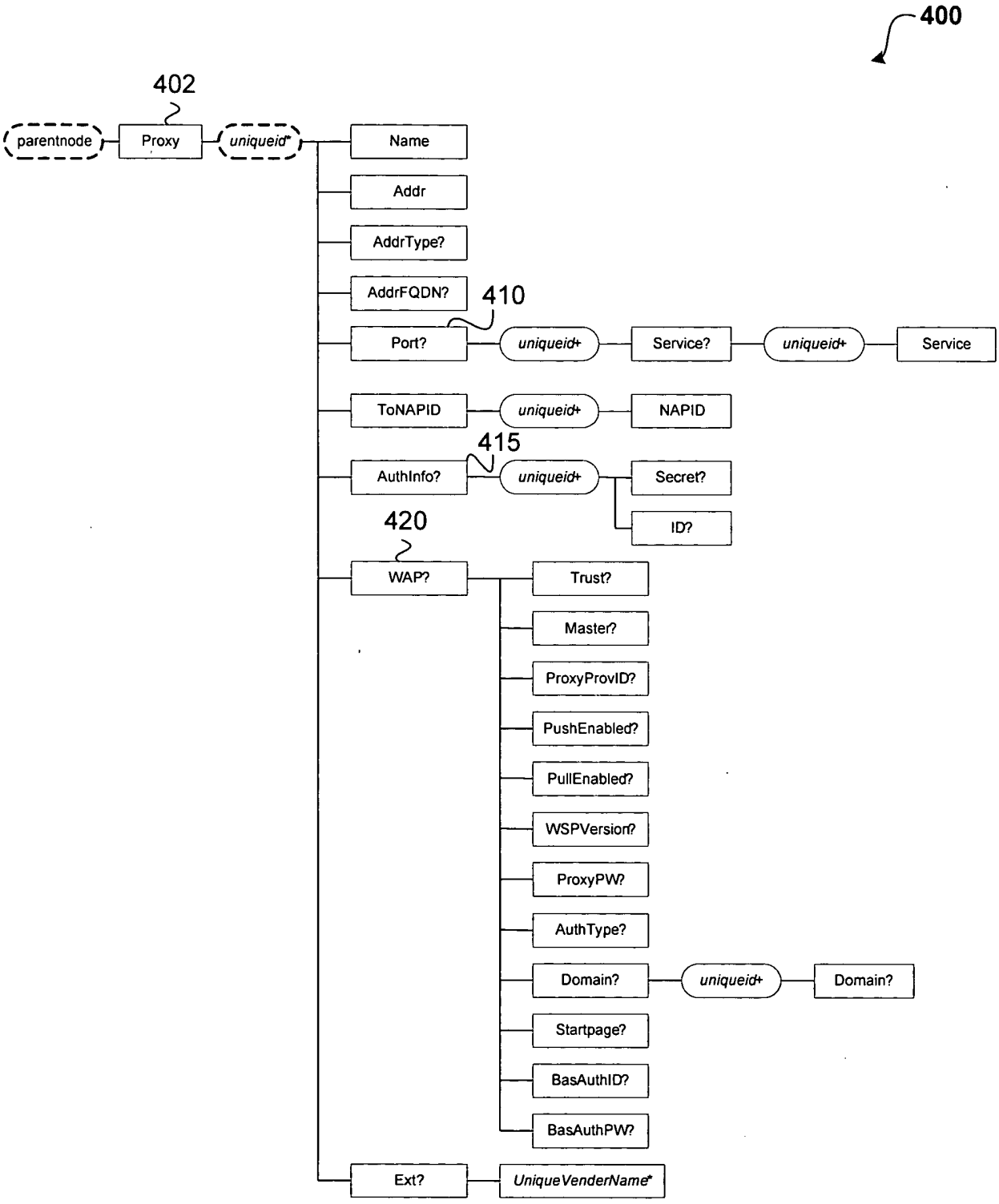
400
402
parentnode
Proxy
uniqueid*
Name
Addr
AddrType?
AddrFQDN?
410
Port?
uniqueid+
Service?
uniqueid+
Service
ToNAPID
uniqueid+
NAPID
415
AuthInfo?
uniqueid+
Secret?
ID?
420
WAP?
Trust?
Master?
ProxyProvID?
PushEnabled?
PullEnabled?
WSPVersion?
ProxyPW?
AuthType?
Domain?
uniqueid+
Domain?
Startpage?
BasAuthID?
BasAuthPW?
Ext?
UniqueVenderName*

Fig. 4

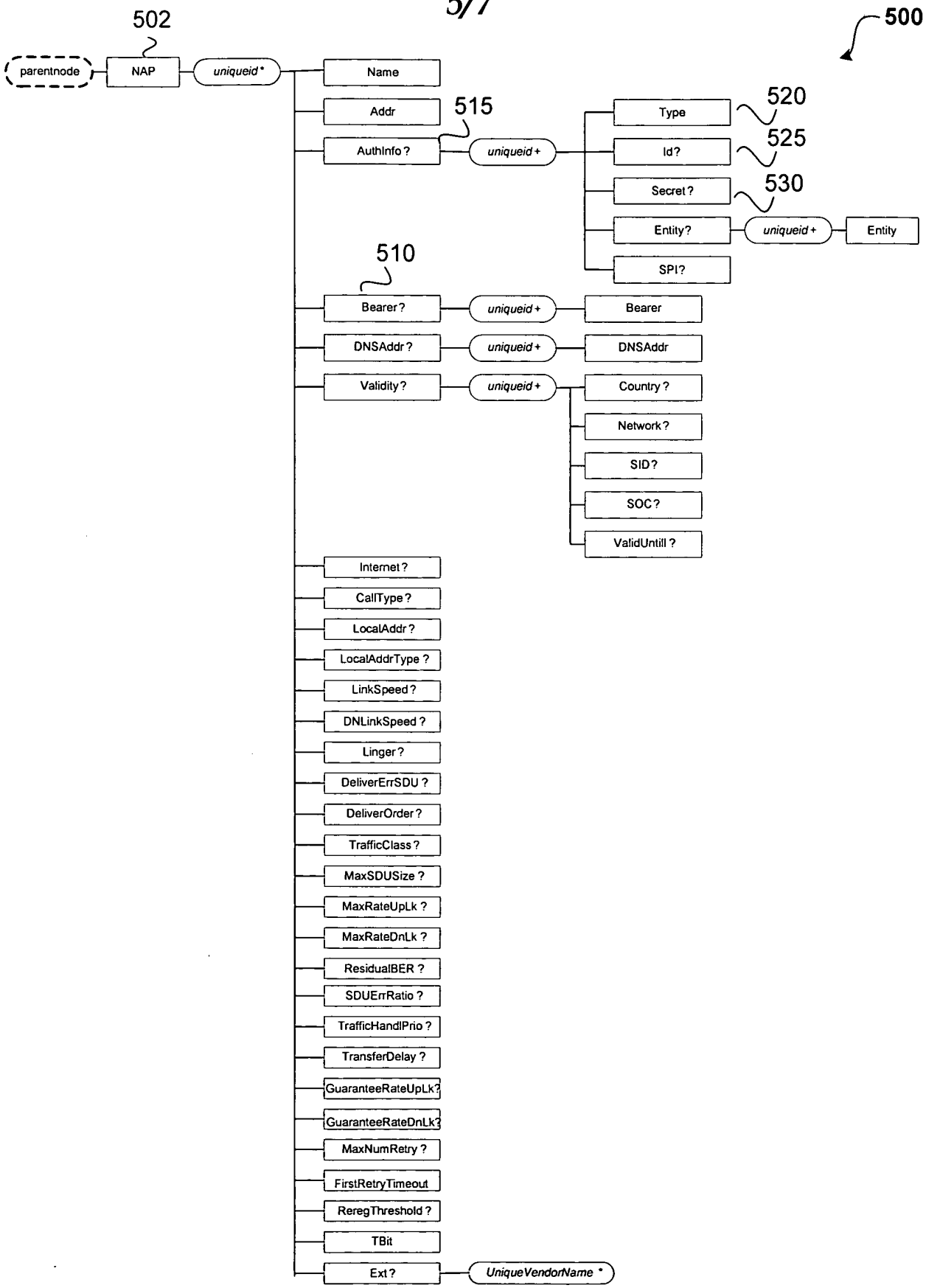
500
502
parentnode
NAP
uniqueid*
Name
Addr
AuthInfo?
515
uniqueid+
Type
520
Id?
525
Secret?
530
Entity?
uniqueid+
Entity
SPI?
510
Bearer?
uniqueid+
Bearer
DNSAddr?
uniqueid+
DNSAddr
Validity?
uniqueid+
Country?
Network?
SID?
SOC?
ValidUntill?
Internet?
CallType?
LocalAddr?
LocalAddrType?
LinkSpeed?
DNLinkSpeed?
Linger?
DeliverErrSDU?
DeliverOrder?
TrafficClass?
MaxSDUSize?
MaxRateUpLk?
MaxRateDnLk?
ResidualBER?
SDUErrRatio?
TrafficHandlPrio?
TransferDelay?
GuaranteeRateUpLk?
GuaranteeRateDnLk?
MaxNumRetry?
FirstRetryTimeout
RegregThreshold?
TBit
Ext?
UniqueVendorName*

Fig. 5

600

XML

```
<?xml version="1.0" encoding="UTF-8"?>
<SyncML>
        <SyncHdr>
                <VerDTD>1.1</VerDTD>
                <VerProto>SyncMLDM/1.1</VerProto>
                <SessionID>1</SessionID>
                <MsgID>1</MsgID>
                <Target>
                  <LocURI>My_Mobile_Device</LocURI>
                </Target>
                <Source>
                  <LocURI>http://www.UMS.com</LocURI>
                </Source>
        </SyncHdr>
        <SyncBody>
                <Replace>                                    610
                <CmdID>2</CmdID>
                        <Item>
                           <target> <LocURI>./Con/Proxy/UMSProxy1/Name</LocURI> </target>
                           <data>The UMS HTTP Gateway</data>
                        </Item>
                </Replace>
                <Replace>
                        <CmdID>3</CmdID>                     620
                        <Item>
                           <target><LocURI>./Con/NAP/UMSISP1/Name</LocURI></target>
                           <data>The UMS Network Access Point</data>
                        </Item>
                </Replace>
        </SyncBody>
</SyncML>
```

Fig. 6

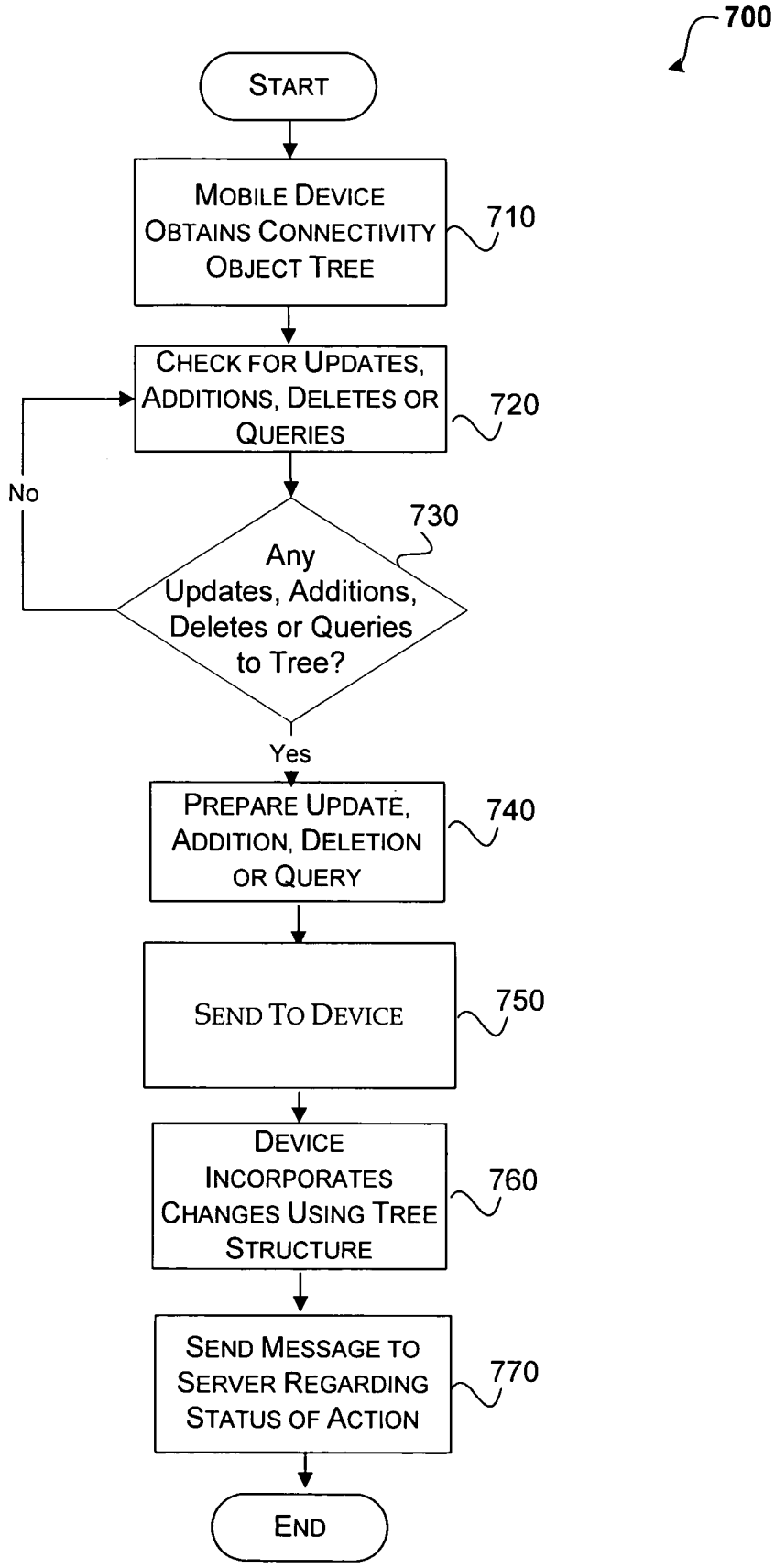
700
START
MOBILE DEVICE OBTAINS CONNECTIVITY OBJECT TREE
710
CHECK FOR UPDATES, ADDITIONS, DELETES OR QUERIES
720
No
730
Any Updates, Additions, Deletes or Queries to Tree?
Yes
PREPARE UPDATE, ADDITION, DELETION OR QUERY
740
SEND TO DEVICE
750
DEVICE INCORPORATES CHANGES USING TREE STRUCTURE
760
SEND MESSAGE TO SERVER REGARDING STATUS OF ACTION
770
END

Fig. 7